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CLAIMS

- 1. A method for imparting anti-static characteristics to fuel, the method comprising supplying a hydrocarbon fuel; and mixing the fuel with metal ion to reduce the electrical resistance of the fuel.
- 2. The method as recited in claim 1 wherein the metal ion is contained in a salt selected from the group consisting of LiBr, KBr, MgBr, and combinations thereof.
- 3. The method as recited in claim 1 wherein the ion is contained in a coordination complex containing a metal selected from the group consisting of Li, K, Mg, Ca, Na, Cs, Be, Sr, Ba, and combinations thereof.
 - 4. The method as recited in claim 1 wherein the metal comprises an alkaline metal.
- 5. The method as recited in claim 1 wherein the step of mixing fuel with a metal ion is preceded by solubilizing a salt containing the metal ion with a solvent.
- 6. The method as recited in claim 5 wherein the solvent is an organic compound selected from the group consisting of a ketone, an alcohol, an aldehyde, and combinations thereof.

- 7. A method for reducing the electrical charge in fuel, the method comprising; supplying a hydrocarbon fuel, and adding a metal salt solution to said hydrocarbon fuel.
- 8. The method as recited in claim 7 wherein the solution comprises a salt present in a solvent in a weight ratio of between 0.0001:1.0 to 0.01:1.0 salt:solvent.
- 9. The method as recited in claim 7 wherein the salt solution is present in the fuel in a volume percent of between 0.0001 to 0.01.
- 10. The method as recited in claim 9 wherein the solvent is a liquid selected from the group consisting of an alcohol, a ketone, an aldehyde, and combinations thereof.
- 11. The method as recited in claim 10 wherein the alcohol is present with water in a volume ratio of between 0.1% to 99.5%.
- 12. The method as recited in claim 11 wherein the ketone is present with water in a volume ratio of between 0.1% to 99.5%.
- 13. A method for increasing combustion characteristics of a fuel, the method comprising supplying a hydrocarbon fuel; and minimizing static electricity accumulations in the fuel prior to combustion.
- 14. The method recited in claim 13 wherein the step of minimizing static electricity includes the step of adding a metal salt solution to said hydrocarbon fuel.
- 15. The method as recited in claim 14 wherein the metal salt solution comprises a salt present in a solvent.

1	16. The method as recited in claim 15 wherein the solvent is a liquid selected from the
2	group consisting of an alcohol, a ketone, an aldehyde, and combinations thereof.
1	17. The method as recited in claim 13 wherein the step of minimizing static electricity
2	charge includes the step of mixing said hydrocarbon fuel with a salt selected from the
3	group consisting of LiBr, KBr, MgBr, and combinations thereof.
1	18. The method as recited in claim 13 wherein the step of minimizing static electricity
2	charge includes the step of adding a coordination complex containing a metal selected
	from the group consisting of Li, K, Mg, Ca, Na, Be, Cs, Sr, Ba, and combinations thereof.
T	19. The method as recited in claim 18 wherein the coordination complex is present in
2	the fuel in a volume percent of between 0.0001 to 0.01.
	20. The method as recited in claim 13 wherein the step of minimizing static electricity
3	accumulations comprises electrically connecting the accumulations to each other via a solubilized metal.
1	21. A substance to decrease static charge in ligand fuels, the substance comprising an
2	alkaline metal homogeneously disbursed throughout electrically non-conductive fuel.
1	22. The substance as recited in claim 21 wherein the alkaline metal is present in the
2	fuel in weight ratio of between 0.0000078:1.0 to 0.01:1.0.
1	23. The substance as recited in claim 21 wherein static electric charge is reduced to
2	between approximately 22 percent and 50 percent of the original charge.